

# What is in our solar system?

Vocabulary	Definition
solar system	The Sun, planets, moons and smaller bodies.
star	A huge, bright ball of burning gas that is held together by gravity.
axis	The imaginary straight line on which a planet rotates.
orbit	When one body of matter spins around another
rotate	When a planet moves about its axis
planet	A massive body of matter orbiting a star
celestial body	A natural body outside of the Earth's atmosphere
spherical body	A body in space which is round due to its gravitational force pulling everything to the centre, creating a sphere.

## The solar system



Made up of the Sun and everything that orbits around it

8 planets- Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

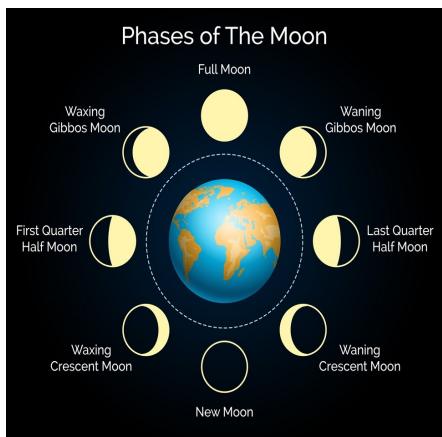
- Dwarf planets
- Moons
- Smaller objects- asteroids and comets

## How do planets orbit the Sun?



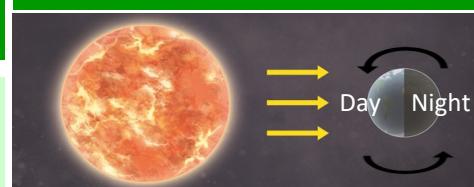
- All planets orbit the sun due to its huge gravitational pull
- It takes Earth 365 days (one year) to complete one orbit.

## The moon and its phases



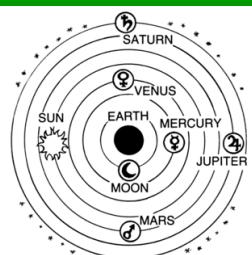
- The moon orbits Earth
- Natural satellite.
- 27.3 days to orbit Earth
- The Moon reflects the sun's light at different angles .
- The part of the Moon we see depends on where the Moon is when orbiting Earth

## Day and night



- The Earth rotates about its axis once every 24 hours
- Facing the sun- daytime
- Facing away from the sun- night time.

## Theories of the solar system



- Different ideas about the solar system change over time
- Geocentric and Heliocentric
- Ptolemy, Copernicus and Kepler